IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ashfaq Hossain

Serial No.:   09/804,248

Filed: March 12, 2001

Title: METHODS AND DEVICES FOR SELECTING INTERNET SERVERS

Grp./A.U.:   2127

Examiner: Syed J. Ali

Commissioner for Patents
Washington, D. C. 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313 on _10/13/04_ (Date)

DEBBIE SAMS
(Printed or typed name of person signing the certificate)

Debbie Sams
(Signature of the person signing the certificate)

Sir:

AFFIDAVIT UNDER 37 C.F.R. § 1.131

I, Ashfaq Hossain, hereby state:

1.   I am the inventor of the claimed subject matter in the Patent Application identified above and an inventor of the subject matter described therein.

2.   Prior to June February 22, 2001, I conceived methods and devices for selecting Internet servers using fuzzy logic rules, as covered by the above-identified Patent Application and evidenced by the following:

        a.   I prepared an Invention Submission for filing of the above referenced Patent Application in the United States prior to February 22, 2001, and after the date of conception. Invention submissions are used in the regular course of business to provide details of conceived inventions for preparing patent applications. Subsequently, the Patent Application was diligently

prepared and filed with the United States Patent Office. A true and correct copy of the Invention Submission is attached hereto as Exhibit A.

b. The dates omitted from Exhibit A are prior to February 22, 2001.

3. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the Patent Application or any patent issuing thereon.

Ashfaq Hossain

Date: Oct 8, 2004.

EXHIBIT A

LUCENT TECHNOLOGIES, INC.

DISCLOSURE OF INVENTION

THIS DESCRIPTION SHOULD BE SUPPLEMENTED BY ATTACHING COPIES OF RELEVANT DOCUMENTS, SUCH AS TECHNICAL MEMORANDA, PUBLISHED OR TO-BE-PUBLISHED ARTICLES, AND ENGINEERING NOTEBOOK PAGES. (Also, if for any item there is insufficient space on the form, attach additional pages as necessary.)

DESCRIPTIVE TITLE OF THE INVENTION: _Balancing Load on Internet Servers Using Fuzzy Logic-based Decisions._

INVENTOR #1: _ASHFAQ HOSSAIN_   _2A-132, Murray Hill, NJ._
  Name (Print)   Company/Location
_(908)-582-8309_   _Victor Lawrence._
  Phone/E-mail   Director's Name

INVENTOR #2: _____
  Name (Print)   Company/Location

  _____
  Phone/E-mail   Director's Name

INVENTOR #3: _____
  Name (Print)   Company/Location

  _____
  Phone/E-mail   Director's Name

2. **PRIMARY CONTACT**
  If more than one inventor is named above, who will have the primary responsibilities for interfacing with Lucent IP-Law with respect to preparing and prosecuting a patent application for the invention?

  Inventor Name: _Ashfaq Hossain_

3. **PRESENT STATE OF THE INVENTION**

  [X] Idea   [X] Research   [ ] Development

  [ ] Manufacture (Product Name _____   Ship Date _____

4. **GOVERNMENT CONTRACT INVENTION**
  Was the invention made under a government contact?   [ ] Yes   [X] No

5. PRESENT STATE OF THE ART
Briefly describe the closest already-known technology that relates to the invention. This would include, for example, already existing products, methods or compositions which are known to you personally or through descriptions in publications or patents.

Internet Server Host Companies have provided solutions for balancing incoming client requests using Round-Robin, minimum bandwidth delivered, current CPU load, current number of open network connections.

6. ADVANCEMENT IN STATE OF THE ART
Briefly describe the unique advancement achieved by the invention. This may be done, for example, by describing a problem with the prior art that is solved or specific objects that are achieved by the invention.

This invention is unique — instead of considering a single or multiple aspects (as mentioned above) of host load conditions, it uses a well-formulated set of Rule-base considering all aspects of host conditions. The Rule Base can be fine-tuned to match increase the efficiency for a particular type of Internet service.

7. HOW ACHIEVED
Briefly describe the invention and how it achieves the advancement described in paragraph 6.

A Fuzzy Logic-base set of Rules has been formulated to intelligently make a Server selection from a group. Given a set of input values, the Rule Base is used to derive a selection index for each Server in the group. The Server with the largest index is the selected server for the newly arrived Client request.

8. DISCLOSURE OUTSIDE OF LUCENT   Not sent for publication yet.

Anticipated Publication Date:_____   Publication Name:_____

Submitted to Publication Clearance?   ☐ Yes   ☐ No

If the invention was or will otherwise be disclosed to any non-Lucent employee, describe to whom (person/company), when, where, why, and whether it was/will be under a non-disclosure agreement.

_____

9. INVENTOR #1: _____
   Signature   Date

   INVENTOR #2: _____
   Signature   Date

   INVENTOR #3: _____
   Signature   Date